

Page 1

Quality Control

JA

SH 15-08-04

DAS
02
9-89

SEP 28 2015

① J.A

AUG 04 2015

DAS
02
9-89

~~SEP 29 2015~~

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Skid-tube ☐</td> <td style="width: 15%;">Cross tube ☐</td> <td style="width: 15%;">Water Jet ☐</td> <td style="width: 15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
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Past Expiry Date ☐	Manufacturing Process ☐	OTHER :																							
Misidentified ☐	Past Due ☐																								

Work Order ID 134281

134281

Page 2

Wednesday, July 08, 2015 3:07:28 PM

Item ID: D412-742-013 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible
 Start Date: 7/06/15 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 7/14/15 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							DAS 02 9-89
130	Packaging	0.00							
Packaging	Memo								
Packaging	Identify and pack for shipping as per PPP D412-742-013								OCT 01 2015
	Location: <u>Sold</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140	QC	0.00							
Quality Control	Memo								

SAL 20151001

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

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Page 1

Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev: A05.10.13 New Issue KJ/JLM
 IPP Rev:B 06-06-08 As per DSI9336 JLM IPP RevC
 07-12-03 ECN 1072 DD verified by:JLM
 IPP Rev:D 08-09-08 ecn 08-510 DD verified by:EC
 IPP Rev:E 09-01-23 as per DSI9441 DD verified by:EC IPP RevF: add
 AN4C7A DD 10.01.13 verified by:EC IPP Rev:G 11.11.01 as per
 DSI9517 REV.B DD verified by:EC IPP rev:H 12.01.12 PER IIN
 REV.E DD VERF: IPP Rev:I add AN4C7A DD 12.03.14
 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN4C47A

Purchased

No

110

Each

10.0000

4

4

**

JA

DAS
02
9-89

AN4C47A

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

10

122491

10

D412-742-043

Manufactured

No

110

Each

0.0000

1

4 1

**

DAS
27
9-89

D412-742-043

Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) Tri-Bag Float Comp.

D2571

9-89

Manufactured

No

110

Each

13.0000

1

1

**

JA

AUG 04 2015

SEP 29 2015

D2571

Saddle, Fwd, Out

DAS
02
9-89

Location

Loc Qty

Loc Code

ST397

9

130850

9

ST405

4

119178

4

B133093

135925

DAS
02
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Page 2

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134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

D2572 Manufactured No 110 Each 20.0000 1 1

D2572

Saddle, Fwd, In

DAS
02
9-89

** JA

Location Loc Qty Loc Code

ST397 16

131069 16

ST405 4

119179 4

D2573 Manufactured No 110 Each 4.0000 1 1

D2573

Saddle, Aft, Out

DAS
02
9-89

**

Location Loc Qty Loc Code

ST405 4

119180 4

D2574 Manufactured No 110 Each 9.0000 1 1

D2574

Saddle, Aft, In

DAS
02
9-89

** JA

Location Loc Qty Loc Code

ST398 5

128969 1

131143 4

ST405 4

119181 4

D2876 Manufactured No 110 Each 39.0000 2 2

D2876

Saddle Spacer

DAS
02
9-89

** JA

AUG 04 2015

Location Loc Qty Loc Code

ST025A 39

120246 1

128431 38

B133117

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Shop Packet Print

Page 2

DQA: _____ Date: _____



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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

D2877

Manufactured No

110

Each

64.0000

2

2

JA



~~*D2877*~~

Saddle Spacer

DAS
02
9-89

Location

Loc Qty

Loc Code

ST013

10

133170

10

ST025A

54

119598

2

128495

40

131919

12

7



D3403-1

Manufactured No

110

Each

29.0000

8

8

JA

~~*D3403-1*~~

Bushing

DAS
02
9-89

Location

Loc Qty

Loc Code

ST037

29

129784

7

133079

1

88782

21

7

D3403-5

Manufactured No

8134645

110

Each

61.0000

88

8

JA

AUG 04 2015



~~*D3403-5*~~

Bushing

DAS
02
9-89

Location

Loc Qty

Loc Code

ST034

32

88784

32

ST037

20

133154

20

7

ST038A

9

133463

9

1

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																													
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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

D2747

Manufactured No

110

Each

127.0000

4

4

D2747

Set Screw

DAS
02
9-89

134779 x 2

**

JA

DAS
6
9-89

Location

Loc Qty

Loc Code

ST010

27

119525

5

133459

22

ST012a

100

127549

50

131867

50

12

D3533-1

Manufactured No

110

Each

54.0000

2

2

D3533-1

Set Screw

DAS
02
9-89

**

JA

DAS
6
9-89

Location

Loc Qty

Loc Code

ST048

54

128448

6

132547

48

2

AN4C6A

Purchased No

110

Each

370.0000

16

16

AN4C6A

Bolt

DAS
02
9-89

**

JA

AUG 04 2015

DAS
6
9-89

Location

Loc Qty

Loc Code

FG

14

103344

4

121657

10

ST312A

104

m131618

4

m132680

100

ST345

252

m130716

52

m131410

200

16

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
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Work Order ID: 134281

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Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

AN4C53A

Purchased

No

110

Each

18.0000

4

4

AN4C53A

BOLT

DAS
02
9-89

**

JA

DAS
02
9-89

Location

Loc Qty

Loc Code

ST340

18

125730

1

126293

3

m129888

14

2

AN4C52A

Purchased

No

110

Each

67.0000

4

4

AN4C52A

Bolt

DAS
02
9-89

**

JA

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

5

122518

5

ST312A

30

M132169

0

M132522

15

3

M132674

15

ST340

17

M131856

2

M132381

15

ST341

15

M132169

15

AN6C12A

Purchased

No

110

Each

43.0000

8

8

AN6C12A

Bolt

DAS
02
9-89

**

JA

DAS
02
9-89

Location

Loc Qty

Loc Code

ST335

43

M128769

3

M132313

40

8

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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			QC / QA Coordinator Approval		
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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

D3672-3 Manufactured No 110 Each 502.0000 32 32

D3672-3

Washer, Phenolic

DAS
02
9-89

**

JA

DAS
6
9-89

Location	Loc Qty	Loc Code
FP001	263	
132639	263	
ST055	239	
129916	15	
133083	224	

NAS1149C0432R Purchased No 6134449 110 Each 2,225.000 32 32 32

NAS1149C0432R

WASHER

DAS
02
9-89

**

JA

DAS
6
9-89

Location	Loc Qty	Loc Code
GA	1956	
m125807	476	
m131467	1480	
ST271	269	
m131452	269	

D3672-9 Manufactured No 110 Each 919.0000 8 8

D3672-9

Washer

DAS
02
9-89

**

JA

AUG 04 2015

DAS
6
9-89

Location	Loc Qty	Loc Code
ST056	389	
114963	389	
t064a	530	
133084	530	

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OTHER :																																																																							

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Page 7

Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149C0632R

Purchased

No

110

Each

111.0000

8

8

NAS1149C0632R

DAS

02

WASHER

9-89

**

JA

DAS
8
9-89

Location

Loc Qty

Loc Code

ST271

111

M128812

111

8

D3672-11

Manufactured

No

110

Each

734.0000

8

8

D3672-11

Washer

DAS

02

9-89

**

JA

DAS
8
9-89

Location

Loc Qty

Loc Code

FG

10

77483

10

ST056

214

M21544

214

8

ST064A

510

133082

510

MS21043-4

Purchased

No

110

Each

874.0000

29

29

MS21043-4

Nut

DAS

02

9-89

**

JA

AUG 04 2015

DAS
8
9-89

Location

Loc Qty

Loc Code

FG

40

104603

40

GA

216

m128798

216

ST260a

400

m132536

400

29

ST304

218

m128818

34

m131697

9

m132382

175

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Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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OTHER : _____																					

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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

D3403-3 Manufactured No

110 Each 33.0000 8 8

D3403-3

Bushing

DAS
02
9-89

Location

Loc Qty

Loc Code

ST037

33

127939

8

132765

10

133514

15

**

JA

DAS
02
9-89

D3405-041 Manufactured No

B134967 110 Each 38.0000 1 8 1

D3405-041

Gn Lug

DAS
02
9-89

Location

Loc Qty

Loc Code

st529

38

119182

7

(119471)

31

**

JA

DAS
02
9-89

D3405-043 Manufactured No

110 Each 11.0000 1 1

D3405-043

Gn Lug

68-6
20
DAS

Location

Loc Qty

Loc Code

ST531

11

119183

11

**

JA

135468

DAS
02
9-89

AN4C7A Purchased No

B133943 110 Each 118.0000 4 1 4

AN4C7A

BOLT

DAS
02
9-89

Location

Loc Qty

Loc Code

ST312A

100

m127363

100

ST345

18

m128634

6

m130388

12

**

JA

AUG 04 2015

DAS
02
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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OTHER :																					

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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

D3407-041

Manufactured No

110

Each

25.0000

1

1

D3407-041

Tow Ring

DAS
02
9-89

Location

Loc Qty

Loc Code

st530

20

133789

20

ST532

5

107840

3

119184

2

**

JA

AUG 13 2015

131712

DAS
6
9-89

DAS
6
9-89

D3417-3

Manufactured No

110

Each

43.0000

2

2

D3417-3

Washer

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

7

33519

7

ST038A

36

128432

36

**

JA

D3456-1

Manufactured No

110

Each

45.0000

1

1

D3456-1

Washer

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

7

25701

7

ST051A

38

128456

3

130974

35

**

JA

AUG 04 2015

8134407

1

DAS
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

AN3C37A

Purchased

No

110

Each

555.0000

1

1

AN3C37A

BOLT

DAS
02
9-89

Location

Loc Qty

Loc Code

ST338a

555

131651

70

M128773

80

M129650

55

M131367

70

M131856

70

M132169

70

M132381

70

M132522

70

**

JA

DAS
6
9-89

AN3C40A

Purchased

No

110

Each

5.0000

1

1

AN3C40A

Bolt

DAS
02

Location

Loc Qty

Loc Code

FG

5

11442

5

m132717

**

JA

AUG 04 2015

DAS
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
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OTHER : _____					

Picklist Print

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Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

AN3C41A

Purchased

No

110

Each

426.0000

1

1

AN3C41A

JA

AUG 04 2015

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

FG	10	
122843	5	
124975	1	
m130081	4	
ST338a	325	
131651	75	
m128491	25	
m131367	75	1
m132169	75	
m132522	75	
ST347	91	
m131856	16	
m132381	75	

DAS
02
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Page 12

Wednesday, July 08, 2015 3:07:27 PM

Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

AN3C42A

Purchased

No

110

Each

82.0000

1

1

AN3C42A

Bolt

**

JA

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

5

121103

5

ST338a

20

m132522

10

m132674

10

ST346

18

m132169

8

m132381

10

ST347

39

m130485

9

m131854

10

m131855

10

m131856

10

AN3C43A

Purchased

No

110

Each

16.0000

4

4

AN3C43A

Bolt

**

JA

AUG 04 2015

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

10

120465

10

ST338a

6

M128244

6

m132767

4

Wednesday, July 08, 2015 3:07:27 PM

Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Page 13

Wednesday, July 08, 2015 3:07:27 PM

Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

AN3C46A

Purchased

No

110

Each

195.0000

5

5

AN3C46A

Bolt

JA

DAS

6

9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

FG

10

122843

10

ST338a

140

13165D

70

M132169

70

ST346

45

M132522

45

NAS1149C0332R

Purchased

No

110

Each

4,325.000

26

26

NAS1149C0332R

WASHER

JA

AUG 04 2015

DAS

6

9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

FP001

2140

m130325

2140

GA

265

m131618

265

ST271

1920

m132262

1920

26

Wednesday, July 08, 2015 3:07:27 PM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Wednesday, July 08, 2015 3:07:27 PM

Work Order ID: 134281

134281

Parent Item: D412-742-013

D412-742-013

Parent Item Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/06/15

Required Date: 7/14/15

Start Qty: 1.00

Required Qty: 1.00

MS21043-3

Purchased

No

110

Each

921.0000

13

13

MS21043-3

J.A

AUG 04 2015

Nut

**DAS
02
9-89**

Location

Loc Qty

Loc Code

FG	80	
103691	80	
FP001	17	
m130673	17	
GA	213	
m130673	15	
m131677	198	
ST304	211	
m131340	199	
m132382	12	
ST308	400	
m132551	400	

13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
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Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

(CONTINUED FROM PAGE 19)

Item	Qty -013	Qty -043	Part Number	Description
40	4		D2571-1	SADDLE, FWD OUTSIDE
41	4		D2572-1	SADDLE, FWD INSIDE
42	4		D2573-1	SADDLE, AFT OUTSIDE
43	4		D2574-1	SADDLE, AFT INSIDE
44	2		D2876-1	SADDLE SPACER
45	2		D2877-1	SADDLE SPACER
46A	8		D3403-1	BUSHING
46B	8		D3403-5	BUSHING
47A	4		D2747-1	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49A	4		AN4C52A	BOLT
49B	4		AN4C53A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	8		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		AN4C7A	BOLT
56	2		D3591-1	BUSHING
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C47A	BOLT
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

**DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	9	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*10	*AN3C6A	*BOLT
4		*4	*AN3C7A	*BOLT
5		*38	*AN960C10L	*WASHER
21		*1	*D4095-041	*WEARSHOE (REPLACES D3564-1)
22		*1	*D4095-043	*WEARSHOE (REPLACES D3564-3)
23		*1	*D4095-045	*WEARSHOE (REPLACES D3564-5)
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		**4	**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24		**1	**D4095-051	**WEARSHOE (REPLACES D3564-13)
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25		**1	*D4095-049	**WEARPAD (REPLACES D3537-1)
26		**1	*D4095-047	**WEARPAD (REPLACES D3537-7)
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**8	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		**4	**AN3C5A	**BOLT
38A		**2	**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

(CONTINUED ON PAGE 20)